

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2005M015	FOR FURTHER ACTION		see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/EP2005/000948	International filing date (day/month/year) 28/01/2005	(Earliest) Priority Date (day/month/year) 22/03/2004	
Applicant EXXONMOBIL CHEMICAL PATENTS INC.			

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. **Certain claims were found unsearchable** (See Box II).

3. **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 1

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

- b. none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/000948

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07C45/50 C10G3/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C10G C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 593 127 A (BUNNING ET AL) 3 June 1986 (1986-06-03) claims; examples; table 2 -----	1-19
Y	US 4 760 194 A (PHILLIPS ET AL) 26 July 1988 (1988-07-26) column 2, lines 1-5 column 3, lines 5-25 column 9; example 1 -----	1-19
Y	DE 100 35 370 A1 (BASF AG) 22 March 2001 (2001-03-22) cited in the application column 11, lines 29-34 ----- -/-	1-19

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority, claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

26 May 2005

Date of mailing of the International search report

03/06/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
Fax: (+31-70) 340-3016

Authorized officer

Bertin-van Bommel, S

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/000948

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/103406 A1 (MATHYS GEORGES ET AL) 1 August 2002 (2002-08-01) paragraphs '0042!, '0045!, '0063!, '0064!; claims 1,9 -----	1-19
A	BELLER M, ET AL: "Progress in hydroformylation and carbonylation" JOURNAL OF MOLECULAR CATALYSIS. A, CHEMICAL., vol. 104, 1995, pages 17-85, XP002325577 NELSEVIER, AMSTERDAM. page 32, paragraph 2.1.3.2; example 4 pages 44-52, paragraph 2.4.2.3 -----	1-19
A	US 5 960 643 A (KUECHLER ET AL) 5 October 1999 (1999-10-05) claims 17,21; example 1 -----	1-10

INTERNATIONAL SEARCH REPORT

Information on patent family members

 International Application No
PCT/EP2005/000948

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 4593127	A	03-06-1986	AT 73752 T AU 594034 B2 AU 5222986 A CA 1258871 A1 CN 86101063 A ,B CS 8600264 A2 DE 3684335 D1 DK 11486 A EP 0188246 A2 ES 8701710 A1 FI 860125 A ,B, IN 166934 A1 JP 61218546 A KR 9008107 B1 YU 2686 A1 ZA 8600222 A		15-04-1992 01-03-1990 17-07-1986 29-08-1989 20-08-1986 13-10-1989 23-04-1992 12-07-1986 23-07-1986 01-03-1987 12-07-1986 11-08-1990 29-09-1986 31-10-1990 29-02-1988 27-08-1986
US 4760194	A	26-07-1988	CA 1300164 C DE 3768506 D1 EP 0279018 A1 EP 0311619 A1 ES 2013320 A6 JP 1503533 T JP 2650699 B2 KR 9512998 B1 WO 8707600 A2		05-05-1992 11-04-1991 24-08-1988 19-04-1989 01-05-1990 30-11-1989 03-09-1997 24-10-1995 17-12-1987
DE 10035370	A1	22-03-2001	NONE		
US 2002103406	A1	01-08-2002	CA 2433852 A1 CN 1487909 A EP 1373171 A1 NO 20033412 A WO 02060843 A1 US 2003225307 A1 BR 0206874 A CA 2433340 A1 CA 2434967 A1 CN 1483010 A CN 1489564 A EP 1368288 A1 EP 1368290 A1 JP 2004526698 T MX PA03006914 A MX PA03006915 A NO 20033414 A NO 20033416 A WO 02060844 A1 WO 02060842 A1 US 2004133053 A1 US 2002111523 A1 US 2004242948 A1		08-08-2002 07-04-2004 02-01-2004 30-09-2003 08-08-2002 04-12-2003 20-01-2004 08-08-2002 08-08-2002 17-03-2004 14-04-2004 10-12-2003 10-12-2003 02-09-2004 05-05-2004 20-05-2004 19-09-2003 30-07-2003 08-08-2002 08-08-2002 08-07-2004 15-08-2002 02-12-2004
US 5960643	A	05-10-1999	US 6212905 B1 AT 226185 T CN 1241991 A ,C DE 69716479 D1 DE 69716479 T2		10-04-2001 15-11-2002 19-01-2000 21-11-2002 26-06-2003

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/000948

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5960643	A	EP 0960086 A1	01-12-1999
		ES 2186014 T3	01-05-2003
		NO 993227 A	31-08-1999
		WO 9829366 A1	09-07-1998
		AU 5719098 A	31-07-1998
		ZA 9711705 A	03-05-1999